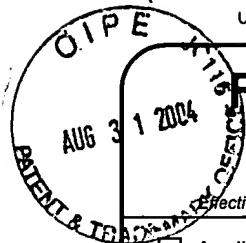


9-1-04

Approved for use through 07/31/2006. OMB 0651-0032  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCEPTO/SB/17 (10-03)  
11-21218

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



# FEET TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 180

## Complete If Known

Application Number	09/868,682
Filing Date	September 4, 2001
First Named Inventor	Nichols
Examiner Name	Hirl
Art Unit	2121
Attorney Docket No.	05222.00159

## METHOD OF PAYMENT (check all that apply)

 Check  Credit card  Money  Other  None  
Order
 Deposit Account:Deposit  
Account  
Number

19-0733

Deposit  
Account  
Name

Banner &amp; Witcoff, LTD.

The Director is authorized to: (check all that apply)

 Charge fee(s) indicated below  Credit any overpayments  
 Charge any additional fee(s) during the pendency of this application  
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity

Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1)

(\$ 0

## 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

	Extra Claims	Fee from below	Fee Paid
Total Claims	[ ] - ** = 0	X [ ]	= 0
Independent Claims	[ ] - ** = 0	X [ ]	= 0
Multiple Dependent		X [ ]	= 0

Large Entity

Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)

(\$ 0

\*\*or number previously paid, if greater. For Reissues, see above

## FEE CALCULATION (continued)

## 3. ADDITIONAL FEES

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Description	Fee Paid
		1051	130	Surcharge - late filing fee or oath	
		1052	50	Surcharge - late provisional filing fee or cover sheet	
		1053	130	Non-English specification	
		1812	2,520	For filing a request for reexamination	
		1804	920*	Requesting publication of SIR prior to Examiner action	
		1805	1,840*	Requesting publication of SIR after Examiner action	
		1251	110	Extension for reply within first month	
		1252	420	Extension for reply within second month	
		1253	950	Extension for reply within third month	
		1254	1,480	Extension for reply within fourth month	
		1255	2,010	Extension for reply within fifth month	
		1401	330	Notice of Appeal	
		1402	330	Filing a brief in support of an appeal	
		1403	290	Request for oral hearing	
		1451	1,510	Petition to institute a public use proceeding	
		1452	110	Petition to revive – unavoidable	
		1453	1,330	Petition to revive – unintentional	
		1501	1,330	Utility issue fee (or reissue)	
		1502	480	Design issue fee	
		1503	640	Plant issue fee	
		1460	130	Petitions to the Commissioner	
		1807	50	Processing fee under 37 CFR 1.17 (q)	
		1806	180	Submission of Information Disclosure Stmt	180
		8021	40	Recording each patent assignment per property (times number of properties)	
		1809	770	Filing a submission after final rejection (37 CFR § 1.129(a))	
		1810	770	For each additional invention to be examined (37 CFR § 1.129(b))	
		1801	770	Request for Continued Examination (RCE)	
		1802	900	Request for expedited examination of a design application	
				Other fee (specify)	
				*Reduced by Basic Filing Fee Paid	
				SUBTOTAL (3)	(\$ 180

SUBMITTED BY			Complete (if applicable)		
Name (Print/Type)	Kenneth F. Smolik	Registration No. (Attorney/Agent)	44,344	Telephone	312-463-5000
Signature	<i>Kenneth F. Smolik</i>			Date	August 31, 2004

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	09/868,682
Filing Date	September 4, 2001
First Named Inventor	Nichols
Group Art Unit	2121
Examiner Name	Hirl
Total Number of Pages in This Submission	Attorney Docket Number
	05222.00159

**ENCLOSURES (check all that apply)**

<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Supplemental Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers <i>(for an Application)</i> <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group <i>(Appeal Notice, Brief, Reply Brief)</i> <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) <i>(please identify below):</i> <b>Supplemental Form PTO/SB08a</b> <b>93 References</b> <b>Certificate of Express Mail</b> <b>Return Receipt Requested</b>				
<table border="1"> <tr> <td>Remarks</td> <td></td> </tr> <tr> <td colspan="2">           The Commissioner is authorized to charge any fees in connection with this correspondence to Deposit Account No. 19-0733. A duplicate of this sheet is enclosed.  <b>Express Mail No. EV 306401186 US</b> </td> </tr> </table>			Remarks		The Commissioner is authorized to charge any fees in connection with this correspondence to Deposit Account No. 19-0733. A duplicate of this sheet is enclosed. <b>Express Mail No. EV 306401186 US</b>	
Remarks						
The Commissioner is authorized to charge any fees in connection with this correspondence to Deposit Account No. 19-0733. A duplicate of this sheet is enclosed. <b>Express Mail No. EV 306401186 US</b>						

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name	Kenneth F. Smolik Banner & Witcoff, Ltd.
Signature	
Date	August 31, 2004

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be send to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



CERTIFICATE OF EXPRESS MAIL  
(PATENT)

Attorney Docket No. 05222.00159

Express Mail No. EV 306401186 US  
Deposited August 31, 2004

I hereby certify that the attached correspondence, identified below, is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" under 37 CFR §1.10 on the date indicated above and is addressed to Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

By: \_\_\_\_\_

Nichols, U.S. Patent Application No. 09/868,682 for "**A GOAL BASED SYSTEM UTILIZING AN ACTIVITY TABLE**"

- Transmittal Form (in duplicate)
- Fee Transmittal (in duplicate)
- Supplement Information Disclosure Statement (8 pages)
- Supplemental PTO/SB/08a (4 pages)
- 93 References
- Return Receipt Postcard



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Attorney Docket No. 05222.00159)

In re U.S. Patent Application of Nichols, et. )  
al. )  
 )  
Application No. 09/868,682 ) Examiner: Hirl  
 )  
Filed: September 4, 2001 ) Group Art Unit: 2121  
 )  
For: A GOAL BASED SYSTEM UTILIZING )  
AN ACTIVITY TABLE )

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR §§1.97 and 1.98, the Applicant wishes to make the following references of record in the above-identified application. This Supplemental Information Disclosure Statement is in compliance with the continuing duty of candor as set forth in 37 CFR §1.56. Copies of the references cited below are enclosed. The references are also listed on the enclosed and completed Form PTO/SB/08A.

The Commissioner is authorized to charge the fees associated with this paper to Deposit Account No. 19-0733.

Under 37 CFR §1.97(g), the filing of this Supplemental Information Disclosure Statement shall not be construed as a representation that a search has been made.

Under 37 CFR §1.97(h), the filing of this Supplemental Information Disclosure Statement shall not be construed to be an admission that the cited references are, or are considered to be, material to patentability as defined in 37 CFR §1.56(b).

The present patent application is related to the following co-pending patent applications:

09/502,348	09/218,977	09/218,726	09/868,664	09/868,713
09/219,055	09/218,749	09/218,995	09/868,669	09/868,667
09/219,080	09/219,479	09/218,945	09/868,693	10/008,265
09/305,719	09/219,524	09/221,608	09/868,698	10/018,062
09/219,480	09/219,477	09/629,367	09/868,678	09/934,924
09/218,968	09/219,481	09/502,349	09/868,686	09/935,219
09/221,217	09/219,088	09/219,478	09/868,689	09/935,348
09/218,741	09/219,201	09/887,188	09/868,694	
09/502,142	09/219,079	10/007,824	09/868,752	
09/219,086	09/218,906	09/887,824	09/868,708	
09/221,138	09/218,976	09/887,947	09/868,743	

#### Foreign References

1. EP 0 689 132 A2, published 12/27/95
2. EP 0 710 942 A2, published 05/08/96
3. EP 0 798 655 A2, published 10/01/97
4. WO 00/04478, published 01/27/00
5. WO 98/03953, published 01/29/98
6. WO 98/25251, published 06/11/98
7. WO 98/32109, published 07/23/98

#### Other Prior Art -- Non Patent Literature Documents

8. W. Doube, "*A Browser-Based System to Support & Deliver DE*," 1998 FIE Conference, Conference Proceedings, Vol. 1, pp. 479-484, Nov. 4-7, 1998
9. W. Regian and G.Pitts, "*A Fuzzy Logic-Based Intelligent Tutoring System (ITS)*," Information Processing 92, Vol. II, pp. 66-72, Dec. 1992.
10. J. Reye, "*A Goal-Centered Architecture for Intelligent Tutoring Systems*," Proc. of 7th World Conf. on Artificial Intelligence in Education, pp. 307-314, Aug. 1995

11. R. Schank and D. Edelson, "*A Role for AI in Education: Using Technology to Reshape Education*", Northwestern University, The Institute for the Learning Sciences, Journal of Artificial Intelligence in Education, Winter 1990, , pp. 1-24, January 1990
12. A. Nowakowski, "*A Special Section -- Goal Based Scenarios: A New Approach to Professional Education: Reengineering Education at Andersen Consulting*," Educational Technology, pp. 3-8, Nov.-Dec. 1994
13. R. Chellappa, A. Barua and A. Whinston, "*An Electronic Infrastructure for a Virtual University*," Communications of the ACM, Vol. 40, No. 9, pp. 56-58, Sep. 1997.
14. K. Itoh M. Itami, K. Ichihara, J. Matsushita, T. Nomizo, T. Shimomura and T. Takahashi, "*An Object-Oriented Architecture for Evolutional Development of Interactive Learning Environment with Coached Problem-Solving*," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 592-94, Dec. 1997
15. K. Nakabayashi, M. Maruama, Y. Koike, Y. Kato, H. Touhei and Y. Fuku hara, "*Architecture of an Intelligent Tutoring System on the WWW*," Artificial Intelligence in Education, pp. 39-46, Dec. 1997
16. D. McArthur, "*Artificial Intelligence and Mathematics Education*" at <http://www.rand.org/hot/mcarthur/Papers/aied.html>, pp. 1-8, Jan. 2001
17. T. Murray, "*Authoring Intelligent Tutoring Systems: An Analysis of the State of the Art*" at <http://www.cs.umass.edu/~tmurray/papers/ATSummary/AuthTools.html>, pp. 1-35, July 2001
18. "*Automate Your Business Plan Software*" at [www.business-plan.com/automate.html](http://www.business-plan.com/automate.html), pp. 1-4, July 2001
19. A. Gonalez and L. Ingraham, "*Automated Exercise Progression in Simulation-Based Training*," IEEE Trans. On Systems, Man, and Cybernetics, Vol. 24, No. 6, pp. 863-74, June 1994
20. A. Muntjewerff, "*Automated Training of Legal Reasoning*" at <http://www.bileta.ac.uk/94papers/muntjew.html>, pp. 1-7, July 2001, 9<sup>th</sup> BILETA Conference April , 1994
21. "*Brainmaker*" at <http://people.becon.org/~echoscan/28-04.htm>, July 2001
22. *Brainmaker Neural Network Application Examples* at <http://www.calsci.com/Applications.html>, January 2001
23. C. Robinson, E. Arias and H. Eden, "*Bridging the Virtual and the Physical: The InterSim as a Collaborative Support Interface*," Artificial Intelligence in Education, pp. 556-58, Dec. 1997
24. C. Shreiner, "*CAPTOR a Model for Delivering Web-Based Intelligent Tutoring System Technology*," IEEE Proc. DASC vol. 2, pp 5.C.4.1-5

25. S. Prabhu, "Computer Aided Instruction for Statistics: A Knowledge-Based Systems Approach," Int'l J. of Computers in Adult Education and Training, Vol. 5(1), pp. 3-14., November 1995
26. J. Montgomery, R. Campbell and C. Moffett, "Conducting and Supporting a Goal-Based Scenario Learning Environment," Educational Technology, pp. 15-20, 994
27. A. Zeller and D. Lutkehaus, "DDD--A Free Graphical Front-End for UNIX Debuggers," ACM Sigplan Notices, Vol. 31, No. 1, pp. 22-27, Jan. 1996,
28. Vanguard Software Corporation "Decision Pro3.0" at [www.vanguardsw.com/](http://www.vanguardsw.com/), Jan. 2001
29. B. Cheok and A. Nee, "Developing a Design System into an Intelligent Tutoring System," Int'l J. Engr. Eud., Vol. 13(5), pp-341-46, Dec. 1997
30. T. Nogami, Y. Yokoi, I. Yanagisawa and S. Mitui, "Development of a Simulation-Based Intelligent Tutoring System for Assisting PID Control Learning," IEICE Transactions on Information and Systems, E77-D, No. 1, Tokyo Japan, pp. 108-117, Jan. 1994
31. J. Gonzalez, J. Lopez, F. Bustio, P., Corcuera and E. Mora, "Development of an Integrated Simulator and Real Time Plant Information System," Advances in Operational Safety of Nuclear Power Plants, Proceedings of an International Symposium, pp. 543-549, September 1996.
32. P. Brusilovsky, S. Ritter and E. Schwarz, "Distributed Intelligent Tutoring on the Web," Artificial Intelligence in Education, pp. 482-89, Dec. 1997
33. R. Schank and M. Korcuska, "Eight Goal-Based Scenario Tools", Technical Report # 67, Northwestern University, The Institute for the Learning Sciences, pp. 1-37, January 1996
34. J. Siemer and M. Angelides, "Embedding an Intelligent Tutoring System in a Business Gaming-Simulation Environment," Proc. Of the 1994 Winter Simulation Conference, pp. 1399-1406, Dec. 1994
35. *Engines for Education* [http://www.ils.nwu.edu/~e\\_for\\_e/nodes/I-M-INTRO-ZOOMER-pg.html](http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html); July 2001.
36. S. Taylor and J. Siemer, "Enhancing Simulation Education with Intelligent Tutoring Systems," Proc. Of the 1996 Winter Simulation Conf., pp. 675-80, Dec. 1996
37. J. Siemer and M. Angelides, "Evaluating Intelligent Tutoring with Gaming Simulations," Proc. Of the 1995 Winter Simulation Conf., pp. 1376-83, Dec. 1995
38. A. Mitrovic and B. Martin, "Evaluating the effectiveness of feedback in SQL-tutor", IEEE, proc. Int. workshop IWALT, pp 143-144, 2000
39. D. Foster, "FRA: Teaching Financial Accounting with a Goal-Based Scenario," Intelligent Systems in Accounting, Finance and Management, Vol. 4, pp. 173-189, September 1995

40. N. Livergood, "From Computer-Assisted Instruction to Intelligent Tutoring Systems," *J. Artificial Intelligence in Education*, V. 2(3), pp. 39-50, Dec. 1991
41. R. Shank, "Goal-Based Scenarios and Business Training: A Conversation with Roger C. Schank," *Educational Technology*, pp. 27-29, Nov.-Dec. 1994
42. A. Collins, "Goal-Based Scenarios and the Problem of Situated Learning: A Commentary on Andersen Consulting's Design of Goal-Based Scenarios," *Educational Technology*, pp. 30-32, Nov.-Dec. 1994
43. R. Shank, "Goal-Based Scenarios", Technical Report # 36, Northwestern University, The Institute for the Learning Sciences, pp. 1-30, December 1992,
44. J. Rickel, "Intelligent Computer-Aided Instruction: A Survey Organized Around System Components," IEEE Inc., New York, Vol. 49, No. 1, pp. 40-57 - pp. 1-32, Jan. 1989
45. M. Yazdani, "Intelligent Tutoring Systems: An Overview" *Experts Systems*, Vol. 3, No. 3, pp. 154-162, July 1986
46. "Interactive Multimedia Instructs the Individual," *Occupational Health & Safety* Vol. 63, No. 10, pp. 144-145, Oct. 1994
47. J. Carroll and J. McKendree, "Interface Design Issue for Advice Giving Expert Systems", Comm. Of the ACM, vol 30, No. 1, pp14-31, January 1987
48. "KBLPS Overview" at [www.cgi.com/CGIWEB/KBLPS/overindex4.html](http://www.cgi.com/CGIWEB/KBLPS/overindex4.html), August 1999
49. "Kiplinger TaxCut Press Releases" at [http://www.taxcut.com/taxcut/98press\\_releases/pr98\\_nowshipping.html](http://www.taxcut.com/taxcut/98press_releases/pr98_nowshipping.html), July 2001
50. G. Cole, "Learning with Computers," *Accountancy* Vol. 113, No. 1209, pp. 60-64, May 1994
51. J. Keys, R. Fulmer and S. Stumpf "Microworlds and Simuworlds: Practice Fields for the Learning Organization," *Organizational Dynamics* Vol. 24, No. 4, pp. 36-49, Spring 1996
52. "MUSE Patents" OCCAM Research Corporation, at [www.muser.com/html/patents.html](http://www.muser.com/html/patents.html), January 2001
53. "News for ESAP" at [www.hops.wharton.upenn.edu/~esap/news.html](http://www.hops.wharton.upenn.edu/~esap/news.html), August 1999
54. M. Cohn, "No More Boring CPE," *Accounting Technology*, pp. 27-35, July 1997
55. K. Lai, T. Malon, K. Yu, "Object Lens: A 'Spreadsheet' for Cooperative Work", *ACM Transactions on Information Systems*, Vol. 6, No. 4, pp. 332-353, Oct. 1988
56. J. Brown, R. Burton and J. DeKleer, "Pedagogical, Natural Language and Knowledge Engineering Techniques in SOPHIE I, II, and III," *Intelligent Tutoring Systems*, D. Sleeman & J.S. Brown eds., pp. 227-82, Dec. 1982

57. J. Caird, "*Persistent Issues in the Application of Virtual Environment Systems to Training*," Proceedings. Third Annual Symposium on Human Interaction with Complex Systems, IEEE, pp. 124-32, August 1996

58. D. Bill, "*Popular Theory Supporting the Use of Computer Simulation for Experiential Learning*," <http://www.centurionsys.com/rtcl57.html>, pp. 1-5, July 2001

59. C. Cleary and R. Bareiss, "*Practical Methods for Automatically Generating Typed Links*," The Institute for Learning Sciences, Northwestern University, ACM Hypertext, pp 31-41, 1996

60. "*Projects: FinPlan System*," Russian Research Institute of Artificial Intelligence, at <http://www.rriai.org.ru/FinPlan>, July 2001

61. R. Azevedo, S. Lajoie, M. Desaulniers, D. Fleiszer and P. Bret, "*RadTutor: The Theoretical and Empirical Basis for the Design of a Mammography Interpretation Tutor*," Proc. of 1997 World Conf. On Artificial Intelligence in Education, pp. 386-393 Dec. 1997

62. T. Cooper and N. Wogrin, "*Rule-Based Programming with OPS5*" Morgan Kaufmann Publishers, at [www.mkp.com/books\\_catalog/O-934613-51-6.asp](http://www.mkp.com/books_catalog/O-934613-51-6.asp), August 1999

63. R. Min, "*Simulation Technology and Parallelism in Learning Environments*" at <http://www.to.utwente.nl/prj/min/Book/chapter1.htm>, pp. 1-26, July 2001

64. J. Shi, T. Smith, J. Granieri and N. Badler, "*Smart Avatars in JackMOO*," Proceedings of the 1999 IEEE Conference on Virtual Reality, pp. 156-163, 1999

65. V. Shute, "*SMART Evaluation: Cognitive Diagnosis, Mastery Learning & Remediation*," Proc. of 7th World Conf. On Artificial Intelligence in Education, pp. 123-130, Aug. 1995

66. C. Hafner and V. Wise, "*Smartlaw: Adapting Classic Expert System Techniques for the Legal Research Domain*," ACM pp 133-141, 1993

67. "*Socialized Collaborative Learning in Multimedia Virtual Worlds*" National University of Singapore, School Computing, at <http://www.comp.nus.edu.sg/labs/learning/lels/vrml.html>, pp. 1-4, July 2001

68. C. Whittington and L. Campbell, "*Task-Oriented Learning on the Web*"; Innovations in Education and Training International, Vol. 36, No. 1, pp. 26-33, Feb. 1999

69. D. Foster, "*Teaching Real-World Analysis Skills for Goal-Based Scenario*," The Institute for the Learning Sciences, Northwestern University, pp. 68-74, July 2001

70. M. Papagni, V. Cirillo and A. Micarelli, "*Teaching Through Case-Based Reasoning: An ITS Engine Applied to Business Communication*," Proc. of 1997 World Conf. On Artificial Intelligence in Education, pp. 111-118, Dec. 1997

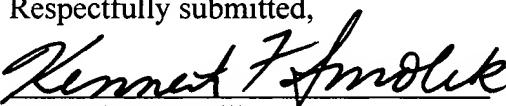
71. T. Herron, "*Teaching with the internet*" 1998, The Internet and Higher Education, pp 217-222, 1998

72. D. Suthers, "Technical Report: Computer Aided Education and Training Initiative" at <http://advlearn.Irdc.pitt.edu/advlearn/papers/FINALREP.html>, pp. 1-51, January 1998
73. Workflow Template - Developing a WFT Workflow System, "Simulating the Running of the WFT Workflow System", Template Software Business Simulator, Chapter 8, pp. 1-23, 1998
74. R. Schank, A. Fano, M. Jona and B. Bell, "The Design of Goal-Based Scenarios", Technical Report # 39, Northwestern University, The Institute for the Learning Sciences, pp. 1-58, March 1993
75. J. Anderson and B. Reiser, "The Lisp Tutor," Byte, pp. 159-75, April 1985
76. D. McArthur, M. Lewis and M. Bishay, "The Roles of Artificial Intelligence in Education: Current Progress and Future Prospects" at <http://www.rand.org/education/mcarthur/Papers/role.html>, pp. 1-42, July 2001
77. W. van Joolingen, S. King and T. de Jong, "The SimQuest Authoring System for Simulation-Based Discovery Learning," Proc. of 1997 World Conf. On Artificial Intelligence in Education, pp. 79-86, Dec. 1997
78. A. Kumar, R. Pakala, R. Ragade and J. Wong, "The Virtual Learning Environment System," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 2, Nov. 4-7, 1998
79. M. McGee, "Train with Less Pain," at [www.Informationweek.com](http://www.Informationweek.com), pp. 150 and 154 October 1997
80. "TurboTax Deluxe Product Information" at <http://www.intuit.com/turbotax/prodinfo/ttdlx.html>, January 2001
81. J. Manzoni and A. Angehrn, "Understanding Organizational Dynamics of IT-Enabled Change: A Multipedia Simulation Approach," Journal of Management Information Systems: JMIS, Vol. 14, No. 3, pp. 109-140, Winter 1997/1998
82. "User-Sensitive Multimedia Presentation System," IBM Technical Disclosure Bulletin, Vol. 39, No. 3, pp. 93-94 March 1996
83. R. Kemp and S. Smith, "Using Planning Techniques to Provide Feedback in Interactive Learning Environments," Proc. Sixth Int'l Conf. On Tools with Artificial Intelligence," pp. 700-703, November 1994
84. R. Kemp, "Using the Wizard of Oz Technique to Prototype a Scenario-Based Simulation Tutor," Proc. of 1997 World Conf. On Artificial Intelligence in Education, pp. 458-465, December 1997
85. R. Schank, "Virtual Learning: A Revolutionary Approach to Building a Highly Skilled Workforce," Personnel Psychology Vol. 51, No. 3, pp. 767-771, Autumn 1998

86. J. Breuker, "What are Intelligent Coaching Systems and Why are they (in)evitable?" IEEE Colloquium on Artificial Intelligence in Educational Software, pp. 2/1-2/5, June 1998
87. "Why Should the Teens Have All the Best Games? Management Skill with Oil, Health, Housing Games," Computergram Int'l, June 17, 1996
88. E.Tam, P. Allard, M. Faraj, M. Kaddoura, A. Mourad, H. Liu, A. Malowany, R. Marceau, L. Granger and J. Gagnon, "WITS: A Reusable Architecture for a VR-Based ITS" at <http://advlearn.Irdc.pitt.edu/its-arch/papers/tam.html>, pp. 1-5, July 2001
89. *Computer Dictionary*, 3<sup>rd</sup> Edition, pp. 264, 276, 383, 446, 462, 507, 1997
90. L. Grensing-Prphal, "Flexible Learning", Credit Union Management Vol. 21, No. 2, pp. 32-33 and 38, Feb. 1998,
91. J. Wilson and D. Mosher, "The Prototype of the Virtual Classroom," Journal of Instruction Delivery Systems, Summer 1994, at <http://www.educause.edu/nlii/articles/moshwils.html>, pp. 1-9, July 2001
92. T. Burns, "Multimedia Training... 'Get Lemonade, Not a Lemon!'" Journal for Quality and Participation, Vol. 20, No. 3, pp. 22-26, June 1997,
93. A. Seagren and B. Watwood, "The Virtual Classroom: Great Expectations. Delivering Graduate Education by Computer: A Success Story," 5<sup>th</sup> Annual International Conf. for Community & Technical College Chairs, Deans and Other Organizational Leaders, pp 512-517, February 1996

Dated: August 31, 2004

Respectfully submitted,

By:   
Kenneth F. Smolik  
Registration No. 44,344  
BANNER & WITCOFF, LTD.  
10 South Wacker Drive  
Suite 3000  
Chicago, Illinois 60606  
Telephone: 312-463-5000  
Facsimile: 312-463-5001



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

4

**Complete if Known**

Application Number	09/868,682
Filing Date	September 4, 2001
First Named Inventor	Nichols
Art Unit	2121
Examiner Name	Hirl

Attorney Docket Number 05222.00159

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	1	EP 0 689 132 A2	12/27/95	Laffra		
	2	EP 0 710 942 A2	05/08/96	Siefert		
	3	EP 0 798 655 A2	10/01/97	Jervis, et al.		
	4	WO 00/04478	01/27/00	Jonsson		
	5	WO 98/03953	01/29/98	Simmons		
	6	WO 98/25251	06/11/98	Ho		
	7	WO 98/32109	07/23/98	De Lange		

## OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	8	W. Doube, "A Browser-Based System to Support & Deliver DE," 1998 FIE Conference, Conference Proceedings, Vol. 1, pp. 479-484, Nov. 4-7, 1998	
	9	W. Regian and G. Pitts, "A Fuzzy Logic-Based Intelligent Tutoring System (ITS)," Information Processing 92, Vol. II, pp. 66-72, Dec. 1992.	
	10	J. Reye, "A Goal-Centered Architecture for Intelligent Tutoring Systems," Proc. of 7th World Conf. on Artificial Intelligence in Education, pp. 307-314, Aug. 1995	
	11	R. Schank and D. Edelson, "A Role for AI in Education: Using Technology to Reshape Education", Northwestern University, The Institute for the Learning Sciences, Journal of Artificial Intelligence in Education, Winter 1990, , pp. 1-24, January 1990	
	12	A. Nowakowski, "A Special Section -- Goal Based Scenarios: A New Approach to Professional Education: Reengineering Education at Andersen Consulting," Educational Technology, pp. 3-8, Nov.-Dec. 1994	
	13	R. Chellappa, A. Barua and A. Whinston, "An Electronic Infrastructure for a Virtual University," Communications of the ACM, Vol. 40, No. 9, pp. 56-58, Sep. 1997.	
	14	K. Itoh M. Itami, K. Ichihara, J. Matsushita, T. Nomizo, T. Shimomura and T. Takahashi, "An Object-Oriented Architecture for Evolutional Development of Interactive Learning Environment with Coached Problem-Solving," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 592-94, Dec. 1997	
	15	K. Nakabayashi, M. Maruama, Y. Koike, Y. Kato, H. Touhei and Y. Fukuhara, "Architecture of an Intelligent Tutoring System on the WWW," Artificial Intelligence in Education, pp. 39-46, Dec. 1997	
	16	D. McArthur, "Artificial Intelligence and Mathematics Education" at <a href="http://www.rand.org/hot/mcarthur/Papers/aied.html">http://www.rand.org/hot/mcarthur/Papers/aied.html</a> , pp. 1-8, Jan. 2001	
	17	T. Murray, "Authoring Intelligent Tutoring Systems: An Analysis of the State of the Art" at <a href="http://www.cs.umass.edu/~tmurray/papers/ATSummary/AuthTools.html">http://www.cs.umass.edu/~tmurray/papers/ATSummary/AuthTools.html</a> , pp. 1-35, July 2001	
	18	"Automate Your Business Plan Software" at <a href="http://www.business-plan.com/automate.html">www.business-plan.com/automate.html</a> , pp. 1-4, July 2001	
	19	A. Gonzalez and L. Ingraham, "Automated Exercise Progression in Simulation-Based Training," IEEE Trans. On Systems, Man, and Cybernetics, Vol. 24, No. 6, pp. 863-74, June 1994	
	20	A. Muntjewerff, "Automated Training of Legal Reasoning" at <a href="http://www.bileta.ac.uk/94papers/muntjew.html">http://www.bileta.ac.uk/94papers/muntjew.html</a> , pp. 1-7, July 2001, 9 <sup>th</sup> BILETA Conference April , 1994	
	21	"Brainmaker" at <a href="http://people.becon.org/~echoscan/28-04.htm">http://people.becon.org/~echoscan/28-04.htm</a> , July 2001	



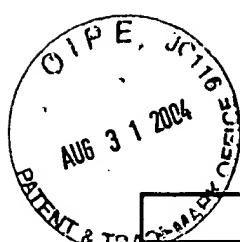
## OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	22	<i>Brainmaker Neural Network Application Examples</i> at <a href="http://www.calsci.com/Applications.html">http://www.calsci.com/Applications.html</a> , January 2001	
	23	C. Robinson, E. Arias and H. Eden, "Bridging the Virtual and the Physical: The InterSim as a Collaborative Support Interface," Artificial Intelligence in Education, pp. 556-58, Dec. 1997	
	24	C. Shreiner, "CAPTOR a Model for Delivering Web-Based Intelligent Tutoring System Technology", IEEE Proc. DASC vol. 2, pp 5.C.4.1-5	
	25	S. Prabhu, "Computer Aided Instruction for Statistics: A Knowledge-Based Systems Approach," Int'l J. of Computers in Adult Education and Training, Vol. 5(1), pp. 3-14., November 1995	
	26	J. Montgomery, R. Campbell and C. Moffett, "Conducting and Supporting a Goal-Based Scenario Learning Environment," Educational Technology, pp. 15-20, 994	
	27	A. Zeller and D. Lutkehaus, "DDD-A Free Graphical Front-End for UNIX Debuggers," ACM Sigplan Notices, Vol. 31, No. 1, pp. 22-27, Jan. 1996,	
	28	Vanguard Software Corporation "Decision Pro3.0" at <a href="http://www.vanguardsw.com/">www.vanguardsw.com/</a> , Jan. 2001	
	29	B. Cheok and A. Nee, "Developing a Design System into an Intelligent Tutoring System," Int'l J. Engr. Eud., Vol. 13(5), pp-341-46, Dec. 1997	
	30	T. Nogami, Y. Yokoi, I. Yanagisawa and S. Mitui, "Development of a Simulation-Based Intelligent Tutoring System for Assisting PID Control Learning," IEICE Transactions on Information and Systems, E77-D, No. 1, Tokyo Japan, pp. 108-117, Jan. 1994	
	31	J. Gonzalez, J. Lopez, F. Bustio, P., Corcuera and E. Mora, "Development of an Integrated Simulator and Real Time Plant Information System," Advances in Operational Safety of Nuclear Power Plants, Proceedings of an International Symposium, pp. 543-549, September 1996.	
	32	P. Brusilovsky, S. Ritter and E. Schwarz, "Distributed Intelligent Tutoring on the Web," Artificial Intelligence in Education, pp. 482-89, Dec. 1997	
	33	R. Schank and M. Korcuska, "Eight Goal-Based Scenario Tools", Technical Report # 67, Northwestern University, The Institute for the Learning Sciences, pp. 1-37, January 1996	
	34	J. Siemer and M. Angelides, "Embedding an Intelligent Tutoring System in a Business Gaming-Simulation Environment," Proc. Of the 1994 Winter Simulation Conference, pp. 1399-1406, Dec. 1994	
	35	<i>Engines for Education</i> <a href="http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html">http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html</a> ; July 2001.	
	36	S. Taylor and J. Siemer, "Enhancing Simulation Education with Intelligent Tutoring Systems," Proc. Of the 1996 Winter Simulation Conf., pp. 675-80, Dec. 1996	
	37	J. Siemer and M. Angelides, "Evaluating Intelligent Tutoring with Gaming Simulations," Proc. Of the 1995 Winter Simulation Conf., pp. 1376-83, Dec. 1995	
	38	A. Mitrovic and B. Martin, "Evaluating the effectiveness of feedback in SQL-tutor", IEEE, proc. Int. workshop IWALT, pp 143-144, 2000	
	39	D. Foster, "FRA: Teaching Financial Accounting with a Goal-Based Scenario," Intelligent Systems in Accounting, Finance and Management, Vol. 4, pp. 173-189, September 1995	
	40	N. Livergood, "From Computer-Assisted Instruction to Intelligent Tutoring Systems," J. Artificial Intelligence in Education, V. 2(3), pp. 39-50, Dec. 1991	
	41	R. Shank, "Goal-Based Scenarios and Business Training: A Conversation with Roger C. Schank," Educational Technology, pp. 27-29, Nov.-Dec. 1994	
	42	A. Collins, "Goal-Based Scenarios and the Problem of Situated Learning: A Commentary on Andersen Consulting's Design of Goal-Based Scenarios," Educational Technology, pp. 30-32, Nov.-Dec. 1994	
	43	R. Shank, "Goal-Based Scenarios", Technical Report # 36, Northwestern University, The Institute for the Learning Sciences, pp. 1-30, December 1992,	
	44	J. Rickel, "Intelligent Computer-Aided Instruction: A Survey Organized Around System Components," IEEE Inc., New York, Vol. 49, No. 1, pp. 40-57 - pp. 1-32, Jan. 1989	
	45	M. Yazdani, "Intelligent Tutoring Systems: An Overview" Experts Systems, Vol. 3, No. 3, pp. 154-162, July 1986	
	46	"Interactive Multimedia Instructs the Individual," Occupational Health & Safety Vol. 63, No. 10, pp. 144-145, Oct. 1994	
	47	J. Carroll and J. McKendree, "Interface Design Issue for Advice Giving Expert Systems", Comm. Of the ACM, vol 30, No. 1, pp14-31, January 1987	
	48	"KBLPS Overview" at <a href="http://www.cgi.com/CGIWEB/KBLPS/overindex4.html">www.cgi.com/CGIWEB/KBLPS/overindex4.html</a> , August 1999	
	49	"Kiplinger TaxCut Press Releases" at <a href="http://www.taxcut.com/taxcut/98press_releases/pr98_nowshipping.html">http://www.taxcut.com/taxcut/98press_releases/pr98_nowshipping.html</a> , July 2001	



OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	50	G. Cole, "Learning with Computers," Accountancy Vol. 113, No. 1209, pp. 60-64, May 1994	
	51	J. Keys, R. Fulmer and S. Stumpf "Microworlds and Simeworlds: Practice Fields for the Learning Organization," Organizational Dynamics Vol. 24, No. 4, pp. 36-49, Spring 1996	
	52	"MUSE Patents" OCCAM Research Corporation, at <a href="http://www.muser.com/html/patents.html">www.muser.com/html/patents.html</a> , January 2001	
	53	"News for ESAP" at <a href="http://www.hops.wharton.upenn.edu/~esap/news.html">www.hops.wharton.upenn.edu/~esap/news.html</a> , August 1999	
	54	M. Cohn, "No More Boring CPE," Accounting Technology, pp. 27-35, July 1997	
	55	K. Lai, T. Malon, K. Yu, "Object Lens: A 'Spreadsheet' for Cooperative Work", ACM Transactions on Information Systems, Vol. 6, No. 4, pp. 332-353, Oct. 1988	
	56	J. Brown, R. Burton and J. DeKleer, "Pedagogical, Natural Language and Knowledge Engineering Techniques in SOPHIE I, II, and III," Intelligent Tutoring Systems, D. Sleeman & J.S. Brown eds., pp. 227-82, Dec. 1982	
	57	J. Caird, "Persistent Issues in the Application of Virtual Environment Systems to Training," Proceedings. Third Annual Symposium on Human Interaction with Complex Systems, IEEE, pp. 124-32, August 1996	
	58	D. Bill, "Popular Theory Supporting the Use of Computer Simulation for Experiential Learning," <a href="http://www.centurionsys.com/rtcl57.html">http://www.centurionsys.com/rtcl57.html</a> , pp. 1-5, July 2001	
	59	C. Cleary and R. Bareiss, "Practical Methods for Automatically Generating Typed Links", The Institute for Learning Sciences, Northwestern University, ACM Hypertext, pp 31-41, 1996	
	60	"Projects: FinPlan System", Russian Research Institute of Artificial Intelligence, at <a href="http://www.riai.org.ru/FinPlan">http://www.riai.org.ru/FinPlan</a> , July 2001	
	61	R. Azevedo, S. Lajoie, M. Desaulniers, D. Fleiszer and P. Bret, "RadTutor: The Theoretical and Empirical Basis for the Design of a Mammography Interpretation Tutor," Proc. of 1997 World Conf. On Artificial Intelligence in Education, pp. 386-393 Dec. 1997	
	62	T. Cooper and N. Wogrin, "Rule-Based Programming with OPS5" Morgan Kaufmann Publishers, at <a href="http://www.mkp.com/books_catalog/O-934613-51-6.asp">www.mkp.com/books_catalog/O-934613-51-6.asp</a> , August 1999	
	63	R. Min, "Simulation Technology and Parallelism in Learning Environments" at <a href="http://www.to.utwente.nl/prj/min/Book/chapter1.htm">http://www.to.utwente.nl/prj/min/Book/chapter1.htm</a> , pp. 1-26, July 2001	
	64	J. Shi, T. Smith, J. Granieri and N. Badler, "Smart Avatars in JackMOO," Proceedings of the 1999 IEEE Conference on Virtual Reality, pp. 156-163, 1999	
	65	V. Shute, "SMART Evaluation: Cognitive Diagnosis, Mastery Learning & Remediation," Proc. of 7th World Conf. On Artificial Intelligence in Education, pp. 123-130, Aug. 1995	
	66	C. Hafner and V. Wise, "Smartlaw: Adapting Classic Expert System Techniques for the Legal Research Domain", ACM pp 133-141, 1993	
	67	"Socialized Collaborative Learning in Multimedia Virtual Worlds" National University of Singapore, School Computing, at <a href="http://www.comp.nus.edu.sg/labs/learning/lets/vrml.html">http://www.comp.nus.edu.sg/labs/learning/lets/vrml.html</a> , pp. 1-4, July 2001	
	68	C. Whittington and L. Campbell, "Task-Oriented Learning on the Web"; Innovations in Education and Training International, Vol. 36, No. 1, pp. 26-33, Feb. 1999	
	69	D. Foster, "Teaching Real-World Analysis Skills for Goal-Based Scenario," The Institute for the Learning Sciences, Northwestern University, pp. 68-74, July 2001	
	70	M. Papagni, V. Cirillo and A. Micarelli, "Teaching Through Case-Based Reasoning: An ITS Engine Applied to Business Communication," Proc. of 1997 World Conf. On Artificial Intelligence in Education, pp. 111-118, Dec. 1997	
	71	T. Herron, "Teaching with the internet" 1998, The Internet and Higher Education, pp 217-222, 1998	
	72	D. Suthers, "Technical Report: Computer Aided Education and Training Initiative" at <a href="http://advlearn.lrdc.pitt.edu/advlearn/papers/FINALREP.html">http://advlearn.lrdc.pitt.edu/advlearn/papers/FINALREP.html</a> , pp. 1-51, January 1998	
	73	Workflow Template - Developing a WFT Workflow System, "Simulating the Running of the WFT Workflow System", Template Software Business Simulator, Chapter 8, pp. 1-23, 1998	
	74	R. Schank, A. Fano, M. Jona and B. Bell, "The Design of Goal-Based Scenarios", Technical Report # 39, Northwestern University, The Institute for the Learning Sciences, pp. 1-58, March 1993	
	75	J. Anderson and B. Reiser, "The Lisp Tutor," Byte, pp. 159-75, April 1985	
	76	D. McArthur, M. Lewis and M. Bishay, "The Roles of Artificial Intelligence in Education: Current Progress and Future Prospects" at <a href="http://www.rand.org/education/mcarthur/Papers/role.html">http://www.rand.org/education/mcarthur/Papers/role.html</a> , pp. 1-42, July 2001	
	77	W. van Joolingen, S. King and T. de Jong, "The SimQuest Authoring System for Simulation-Based Discovery Learning," Proc. of 1997 World Conf. On Artificial Intelligence in Education, pp. 79-86, Dec. 1997	



OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	78	A. Kumar, R. Pakala, R. Ragade and J. Wong, "The Virtual Learning Environment System," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 2, Nov. 4-7, 1998	
	79	M. McGee, "Train with Less Pain," at <a href="http://www.informationweek.com">www.informationweek.com</a> , pp. 150 and 154 October 1997	
	80	"TurboTax Deluxe Product Information" at <a href="http://www.intuit.com/turbotax/prodinfo/ttdlx.html">http://www.intuit.com/turbotax/prodinfo/ttdlx.html</a> , January 2001	
	81	J. Manzoni and A. Angehrn, "Understanding Organizational Dynamics of IT-Enabled Change: A Multipedia Simulation Approach," Journal of Management Information Systems: JMIS, Vol. 14, No. 3, pp. 109-140, Winter 1997/1998	
	82	"User-Sensitive Multimedia Presentation System," IBM Technical Disclosure Bulletin, Vol. 39, No. 3, pp. 93-94 March 1996	
	83	R. Kemp and S. Smith, "Using Planning Techniques to Provide Feedback in Interactive Learning Environments," Proc. Sixth Int'l Conf. On Tools with Artificial Intelligence, pp. 700-703, November 1994	
	84	R. Kemp, "Using the Wizard of Oz Technique to Prototype a Scenario-Based Simulation Tutor," Proc. of 1997 World Conf. On Artificial Intelligence in Education, pp. 458-465, December 1997	
	85	R. Schank, "Virtual Learning: A Revolutionary Approach to Building a Highly Skilled Workforce," Personnel Psychology Vol. 51, No. 3, pp. 767-771, Autumn 1998	
	86	J. Breuker, "What are Intelligent Coaching Systems and Why are they (in)evitable?" IEEE Colloquium on Artificial Intelligence in Educational Software, pp. 2/1-2/5, June 1998	
	87	"Why Should the Teens Have All the Best Games? Management Skill with Oil, Health, Housing Games," Computergram Int'l, June 17, 1996	
	88	E.Tam, P. Allard, M. Faraj, M. Kaddoura, A. Mourad, H. Liu, A. Malowany, R. Marceau, L. Granger and J. Gagnon, "WITS: A Reusable Architecture for a VR-Based ITS" at <a href="http://advlearn.lrdc.pitt.edu/its-arch/papers/tam.html">http://advlearn.lrdc.pitt.edu/its-arch/papers/tam.html</a> , pp. 1-5, July 2001	
	89	Computer Dictionary, 3 <sup>rd</sup> Edition, pp. 264, 276, 383, 446, 462, 507, 1997	
	90	L. Grensing-Prphal, "Flexible Learning", Credit Union Management Vol. 21, No. 2, pp. 32-33 and 38, Feb. 1998,	
	91	J. Wilson and D. Mosher, "The Prototype of the Virtual Classroom," Journal of Instruction Delivery Systems, Summer 1994, at <a href="http://www.educause.edu/nlii/articles/moshwils.html">http://www.educause.edu/nlii/articles/moshwils.html</a> , pp. 1-9, July 2001	
	92	T. Burns, "Multimedia Training... 'Get Lemonade, Not a Lemon!'" Journal for Quality and Participation, Vol. 20, No. 3, pp. 22-26, June 1997,	
	93	A. Seagren and B. Watwood, "The Virtual Classroom: Great Expectations. Delivering Graduate Education by Computer: A Success Story," 5 <sup>th</sup> Annual International Conf. for Community & Technical College Chairs, Deans and Other Organizational Leaders, pp 512-517, February 1996	

Examiner Signature		Date Considered
--------------------	--	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

